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CARAVANEMANE SANITATION SYSTEM OWNER'S MANUAL VacuFlush® 1600 Series Toilets and Holding Tank Systems for European Caravans (HTS-EC) 2 Spare Parts 8 Model Rooms and Sizes 3 Service Tip 8 Key System Components 4 - 5 Order Part 8 Important Information Before Operation 5 Toilet Model Identification 9 System Start-Up 5 Special Toilet Tissue 9 Vacuum Toilet Operation 6 TroubleShooting Guide 10 - 12 Holding Tank Operation - Discharge 6 Parts Lists 13 - 19 Cleaning - Holding Tank 6 Wiring 20 Wintering - Holding Tank 6 Parts Distributors 21 Proper Toilet Cleaning and Maintenance 7 Sales Offices 22 Winterizing - Toilet 7 Manufacturer's Guarantee 24 Service Schedule 8 WARNING - PUMP START AUTOMATICALLY. Turn off the electricity before maintenance. Read and understand the full contents of this guide before you operate or maintain the retention system. Failure to do so may damage the sanitation system. Dometic reserves the right to change the specifications without notice. FEATURES Dometic Caravan Sanitation Systems are the latest standard in mobile sanitation. Each system consists of a VacuFlush 1600 toilet and a tank storage vacuum system, a fully integrated vacuum generator/hold tank module designed specifically for European caravans. It's a convenient choice. Dometic VacuFlush toilets are handmade from glassy porcelain, easy to clean and durable - just like the one in your home. The shiny bowl provides all the beauty and light cleanliness of the home toilet, while the full seat and lid provide the same comfort. Fully integrated design. Dometic HTS-EC systems combine a vacuum generator, level indicators, a discharge pump and a holding tank into one easy-to-install package. Available in 35-, 60- and 90-litre containers. Extended tank capacity. Because the VacuFlush toilet® consumes only 0.4 liters of water per flush, the storage tank provides sufficient capacity for a few days of travel without emptying the onboard system. Energetic Flushing action. The vacuum action cleans the bowl in an instant when the waste is fragmented before it enters the storage tank. No unpleasant smells. No chemicals. A holding tank is installed outside the bathroom with a filter in the line that stops malodours from escaping through the ventilation joint. Light surgery. The status panel in the bathroom signals when it is ok to rinse, when the holding pot is full, and when the vacuum level is too low for flushing. A separate monitor panel shows the state of the tank's capacity. The safety function automatically shuts down the sanitation system if the storage tank is full. Unmatched The holding tank comes with a nominal thickness of 10mm wall. All inputs and sockets are connected from the top of the tank for easy access. Dumping at the touch of a button. No magazine tape To transport - just strutt your car a few meters from the landfill, unwrap the flexible sanitary hose and turn on the unloading pump. The tank is emptied within a few minutes. 1600 SERIES TOILETS Model Description Size Weight Length x Width x Height 1606 Low-fill vacuum toilet. Unloading below the floor. 495mm x 438 mm x 356 mm 10 kg 19 1/2 x 17 1/4 x 14 22 Lbs. 1609 Standard Height vacuum toilet. Unloading below the floor. 495mm x 378 mm x 457 mm 10.4 kg 19 1/2 x 14 7/8 x 18 23 Lbs. 1648 Standard Height vacuum toilet. Above the floor, rear. 495 mm x 378 mm x 457 mm 10.4 kg 19 1/2 x 14 7/8 x 18 23 Lbs. All models are flush with just 0.47 liters (1 pint) of water. Sizes can vary by 10 mm (3/8). Weight can vary by 5%. - MODEL 1606 - Measuring the width of MODELS 1609, 1648 includes a flush pedal. HTS-EC MODELS Model Size Usable Weight Max. Weight Number of Length x Width x Height Capacity Flushes* 35 HTS-EC 619mm x 416mm x 578mm 35 Liters 20.2 Kg 55.3 Kg 27 24 3/8 x 16 3/8 x 22 3/4 9.2 Gallons 44.5 Lbs. 122 Lbs. 60 HTS-EC 718 mm x 362 mm x 657 mm 60 Liters 22.9 Kg 83 Kg 47 28 1/4 x 14 1/4 x 25 7/8 15.8 Gallons 50.5 Lbs. 183 Lbs. 90 HTS-EC 902 mm x 330 mm x 746 mm 90 Liters 27.4 Kg 117.9 Kg 70 35 1/2 x 13 x 29 3/8 23.8 Gallons 60.5 Lbs. 260 Lbs. * VacuFlush toilets use as little as 0.4 l (0.11 gal.) of water per flush. Since we recommend adding more water when washing solids, we conservatively estimate the average water use at 0.76 liters (0.2 g.) per flush. The total volume of drains averages 1.29 liters (.34 gal.) per flush. 35 HTS-EC 60 HTS-EC 90 HTS-EC KEY SYSTEM COMPONENTS Vacuum Toilet: VacuFlush toilet works differently compared to other toilets. VacuFlush systems use a small amount of water (only 400 ml) per flush in addition to a powerful vacuum. The toilet is connected to the pressurized fresh water system. Because the vacuum generator is located between the vacuum toilet and the waste storage tank, the result is the odorless bathroom compartment. VacuFlush toilets are equipped with a solid anti-syphonic vacuum switch that prevents possible contamination of freshwater supplies. Vacuum generator: A vacuum generator creates the vacuum needed to move waste from the toilet to the waste storage tank. It combines a vacuum tank and a vacuum pump in one unit. The vacuum level of the system is controlled by a vacuum switch located on a vacuum tank. When this switch feels the vacuum drop in the system, it automatically signals the pump to activate and bring the vacuum to the operating level. This process usually ends in less than one minute. The vacuum pump design is both an effective air and liquid pump that handles solids without problems. It has two duckbill valves on each side cameras to maintain the vacuum and prevent the backflow of waste. Produced from long-term polypropylene and draws only 4 to 6 6 12 volt DC current. VacuStat®: The state panel is installed in the bathroom. The green light indicates that there is a sufficient vacuum for the next flush. The red light indicates that the vacuum is being built and the pump is working. The red light also indicates that the storage tank is full and the pump has been disconnected until the tank is empty. TankWatch® Level Monitor: Includes four tank level indicators - empty, low, medium and full, as well as international symbolism of the four levels of the tank. One light is always on to indicate that the system works. The panel is connected to three (empty, medium, full) probes in the holding tank. No electrical components come into contact with waste or water. Works on 12 or 24-volt DC. Uses only .017 amplifiers by 12 volts. VacuFlush Shutdown Relay: To prevent the holding tanks from overflowing, the shutdown relay comes as standard with the TankWatch panel. The relay disables the power of the vacuum generator when the holding tank reaches full level, preventing the tank from overflowing. Vacuum toilet vacuum generator VacuStat Panel TankWatch Panel KEY SYSTEM COMPONENTS (cont'd) SaniGard™ Holding Tank Vent Filter: SaniGard Vent vent filter stops odors that run out of tank holes. It contains the smell of removing the media filter to keep your boat's filter smelling clean and pleasant. Each cartridge is good throughout the season and is easily replaced for a fresh start. Tank Full Tank Full Float Switch: The Tank Full Float Switch is installed at the top of the Float holding tank or ventilation pipe, and turns off the vacuum pump or vacuum generator off when the switch float switch is activated by the rising contents of the holding tank. This relay also sends a signal to the red light of the state panel. This relay is pre-built and installed at the pump on a vacuum generator. For systems using a vacuum tank and a separate pump, it is installed separately during installation and wired accordingly. SaniPump discharge™ pump discharge: For a thorough, carefree holding pump pump pump pump, our pump discharge offers many benefits. Its specially designed aperture furs allows it to run dry without harm. It processes up to 315 gallons (1,192 liters) per hour, while drawing only 6 amplifiers per 12 volt DC. NOTE: The switch to unload the pump is supplied by the installer. Discharge hose: reinforced, 32 mm ID, 3-meter discharge hose. Includes a 38mm hose adapter to connect to the pump discharge socket. IMPORTANT INFORMATION BEFORE Operation 1.Fill the freshwater tank and add the deodorant to holding the tank through the toilet bowl. 2. Make sure that all guests understand the work of the VacuFlush system and The label is in plain sight and easy for guests to read. If this label is not included in this guide, contact Dometic Customer Service immediately. 3.Remember that the vacuum pump starts automatically. Turn Off Disable electricity in the system before maintenance and do not leave the recreational car with a toilet system switch. 4.Never use drainage knives, alcohol, solvents, etc. in the system. 5. If the system is not functioning properly, refer to the troubleshooting section of this manual and repair as needed. If the problem persists, contact your local Dometic dealer or contact the customer service section of this guide. SYSTEM START-UP 1. Turn on the electrical energy for the sanitation system. 2.Flush the water into the system, depressing the flush lever on the toilet until the water starts to flow through the vacuum pump and into the storage tank (black water tank). This will wash away the interior of the pump for efficient operation. If the vacuum pump does not work, check for free electrical connections. Check the wiring scheme for the system. 3. The vacuum pump will run for about 30 to 90 seconds until the system reaches the operating vacuum level and then shuts down. To add water to the toilet up to 2. To flush the toilet, press the flush lever 3. Do not dispose of the sanitary wipes using, raise the flush lever until desired sharply down on the floor until the contents or other dissolving elements in the toilet, the water level is reached. It is usually a clearer bowl. Sharp flapping noise such as facial tissues or paper towels. Water is required only when rinsing normally, when the vacuum seal bro-These elements can cause the connection of solids. Ken and the flushing action begins. System. Turn to deodorants and be sure to hold the lever down for three special tissues section in this guide seconds. If the flush lever is accidental for more information. Released until the waste cleans the bowl, do not try to flush the toilet again until the vacuum pump stops working. A small amount of water should remain in the bowl after rinsing. HOLDING TANK OPERATION - WORK 1.Position of the vehicle next to sewer landfills. 2. Deploy the discharge hose, remove the plastic lid, and insert the end into the landfill of the object. 3.Activate the unloading pump. 4.After the tank is empty, the tank can be rinsed. (Note: Rinse systems vary depending on the vehicle. 5.Dump rinse with water in a landfill. Drain all the water from the hose to reset. Place the plastic lid on the end of the hose. Roll up and store the hose. CLEANING - HOLDING TANK A small amount of water remains in all reservoirs. It is a good practice to rinse the tank after the contents have been discharged. This can be achieved by adding water to the toilet bowl. Add 237 ml (8 ounces) from SeaLand® Holding Tank Deodorant to the bowl. Rinse all the contents in the holding tank and continue flushing until the discharge from the holding tank is clear. Not chlorine-based cleaners, caustic cleaners or chemicals such as products opened to drain as they can damage the seals and hose system. WINTERISING - HOLDING TANK If you use antifreeze to winter the holding tank system, use only freshwater antifreeze glycol, which does not contain alcohol. Alcohol-containing antifreeze will damage your sanitary system. 1. Pump out the holding tank. 2. Thoroughly rinse the freshwater system before adding propylene glycol freshwater antifreeze to HTS. 3.Turn off the electricity. PROPER TOILET CLEANING AND MAINTENANCE Dometic china toilets should be cleaned regularly for maximum sanitation and operational efficiency. You can clean it just like you would a household toilet. Do not use caustic chemicals such as drainage types as they hang seals. BOWL CLEANING: Use SeaLand® Bowl and Seal Cleaner for stubborn spots. A). It is made specifically for use with Dometic toilets. In some places where water is difficult, the accumulation of lime can dull the toilet finish. Restore the shine with this SeaLand cleaner. If you can't find it in your area, contact Dometic for your nearest dealer. If this cleaner is not available, you can also use the Bar Keepers Friend cleaner® detergent. Don't necessarily vigorously scrub off any product. Please follow the label instructions. SEAL CLEANING: After a long time, mineral deposits from solid water can create under the edge of the seal of the rubber bowl, causing a slow water leak from the bowl. To prevent this mineral build-up, periodically clean the SeaLand Bowl and Seal Cleaner under seal. B). 1. Turn off the water supply and power for a vacuum pump or vacuum generator. 2. Apply the detergent to the cleaning brush, open the flash ball by pressing the flush lever, and scrub under the seal. Make sure to press the brushed bristles between the bottom of the seal and the top of the surface of the flash ball to wash all the parts of the seal that come into contact with the flush ball. 3.Close the ball and wait 2-3 minutes. 4.Open flash ball. Use brush and water to rinse detergent and weakened sediments. 5.After cleaning, turn water and electricity into the toilet system. WINTERISING - TOILET At the end of each season, the Dometic toilet should be in winter to store either draining or use of safe antifreeze drinking water in the system. For the drain: 1.Thoroughly rinse the system with fresh water. 2.Empty holding tank. 3.Model 1606 only: Turn off the water supply to the toilet (s), and remove the entrance to the water (Figure. C). Do not remove the brass lid at the bottom of the valve. Model 1609, 1648: Turn off the water supply to the toilet (s), and remove the plastic lid from the bottom of the brass installation (rice. D). Do not remove the brass installation at the bottom of the water valve. 4.Push the flush lever until all the water is drained from the toilet (s). Maintenance intervals and normal parts replacement vary greatly depending on numerous factors, such as the frequency of use of the system, the quality of water flushing, etc. The chart is designed solely as a general guide to keeping 100% ready for any use. Recommended maintenance procedure Required maintenance date ROUTINE MAINTENANCE Toilet Flush Ball Seal Cleaning Monthly SeaLand Bowl and Seal Cleaner tighten toilet seat mounting Monthly N/A equipment (or as needed) MAJOR SYSTEM MAINTENANCE Replace duckbill valves in a vacuum Every three years Duckbill Valve Kit: Generator or Vacuum Pump Item No. 310076 (2) Replace the flash ball seal and flush every three years Flush Ball Seal: see Parts Of the Ball List (if necessary) Flush Ball: See the list of parts SPARE PARTS Recommended that the following parts should be stored at any time. They are especially important for emergency vacuum system repairs when you are in areas where spare parts are not readily available. Description Part Room Number Where Used Flash Ball Print See Parts List 1 Flash Ball See Parts List 1 Vacuum Toilet Water Valve See Parts List 1 Vacuum Switch Build See Parts 1 Vacuum Switch Kit see Parts List 1 Vacuum Generator 1.5-inch Duckbill Valve Kit 310076 2 (or vacuum pump and (2 ea. per kit) Vacuum tank) Taking four or five sheets of toilet fabric and wiping all the seams and va line connections offers a simple means of determining the total area of leakage. Start at the top of the device, as gravity will cause the leak to run down. When the fabric comes into contact with the leaking water, it immediately changes the texture. ORDERING PARTS Dometic is ready to help you in case the service is needed. Before you call your local parts dealer or distributor, please have the following information available. Your cooperation in making this information ready is highly valued. 1.Toilet model number (see next section) 2.Serial number 3.Part Number, Description and number (see Details of the list of parts.) Info.)

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